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Claims

1 1. A universal computer-aided design system comprising:
2 a computer-aided design neutral database having values within
3 addressable data cells;
4 a computer-aided design graphics platform operating on readable
5 formatted data unique to said platform;
6 an export routine capable of conveying the values within the data cells
7 to said platform as readable formatted data independent of translation; and
8 a computer capable of executing the export routine.

1 2. The universal computer-aided design system of claim 1 further
2 comprising a plurality of said platforms and corresponding export routines
3 wherein each of said plurality of platforms is interactive with said database by
4 said corresponding export routine.

1 3. The universal computer-aided design system of claim 1 wherein
2 a modification to the readable formatted data within said platform updates the
3 values in said database.

1 4. The universal computer-aided design system of claim 1 wherein
2 said computer-aided design neutral database having values is arranged into a
3 part family, said part family comprising a part family member.

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1 5. The universal computer-aided design system of claim 1 further
2 comprising a query routine program prompting a user for input, said program
3 storing the input in the computer-aided design neutral database.

1 6. The universal computer-aided design system of claim 4 where
2 said part family member is described by a parameter description having at least
3 one physical property selected from a group consisting of: size, shape, color,
4 material, and weight.

1 7. The universal computer-aided design system of claim 5 wherein
2 said parameter description further comprises at least one information packet
3 selected from a group consisting of: part name, part number, price, inventory,
4 manufacturer, and a computer web link to the manufacturer.

1 8. A universal computer-aided design system comprising:
2 a computer-aided design neutral database having values within
3 addressable data cells;
4 a plurality of computer-aided design graphics platforms each operating
5 on readable formatted data unique to said platform; and
6 a plurality of export routines, corresponding to said plurality of
7 computer-aided design graphics platforms wherein each of said plurality of
8 platforms is interactive with said database by said corresponding export
9 routine.

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1 9. The universal computer-aided design system of claim 8 wherein
2 a modification to the readable formatted data within said platform updates the
3 values in said database.

1 10. The universal computer-aided design system of claim 8 wherein
2 said computer-aided design neutral database having values is arranged into a
3 part family, said part family comprising a part family member.

1 11. The universal computer-aided design system of claim 8 further
2 comprising a query routine program prompting a user for input, said program
3 storing the input in the computer-aided design neutral database.

1 12. The universal computer-aided design system of claim 11 where
2 said part family member is described by a parameter description having at least
3 one physical property selected from a group consisting of: size, shape, color,
4 material, and weight.

1 13. The universal computer-aided design system of claim 12
2 wherein said parameter description further comprises at least one information
3 packet selected from a group consisting of: part name, part number, price,
4 inventory, manufacturer, and a computer web link to the manufacturer.

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1 14. A universal computer-aided design system comprising:
2 a computer-aided design neutral database having values within
3 addressable data cells;
4 a file created from said database in a computer-aided design neutral file
5 format;
6 a computer-aided design graphics platform operating on readable
7 formatted data unique to said platform;
8 an export routine capable of conveying the values within the file to said
9 platform as readable formatted data independent of translation;
10 an import routine capable of conveying values from the platform as
11 readable formatted data independent of translation; and
12 a computer capable of executing the export and import routines.

1 15. A process for computer-aided design rendering comprising the
2 steps of:
3 storing values within addressable data cells of a computer-aided design
4 neutral database; and
5 delivering the values to one of a plurality of computer-aided design
6 graphics platforms in a format readable by one of said graphics platforms
7 independent of translation.

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1 16. The process of claim 15 further comprising the step of updating
2 said computer-aided design neutral database from said computer-aided design
3 graphics platform.

1 17. The process of claim 15 further comprising the step of
2 performing parametric modeling prior to updating said computer-aided design
3 database.

1 18. The process of claim 15 wherein values stored within said
2 computer-aided design database are arranged into a part family, said part
3 family comprising a part family member.

1 19. The use of a neutral database for exporting parameters to a first
2 graphics platform, said database receiving updated data from said first graphics
3 platform and displaying the updated data on a second disparate graphics
4 platform independent of translation.

1 20. The use of a neutral database according to claim _____ wherein
2 said first and said second graphics platforms are computer-aided design
3 platforms.

